

Name: _____

at1113exam: Expand, factor, and solve quadratics (v313)

1. Solve the equation.

$$(5x - 8)(4x - 7) = 0$$

2. Expand the following expression into standard form.

$$(5x + 3)^2$$

3. Expand the following expression into standard form.

$$(8x + 7)(8x - 7)$$

4. Expand the following expression into standard form.

$$(9x - 5)(2x + 7)$$

5. Factor the expression.

$$25x^2 - 36$$

6. Solve the equation.

$$9x^2 + 54x + 51 = 2x^2 - 3x - 5$$

7. Solve the equation with factoring by grouping.

$$10x^2 + 8x + 15x + 12 = 0$$

8. Factor the expression.

$$x^2 - 16x + 63$$